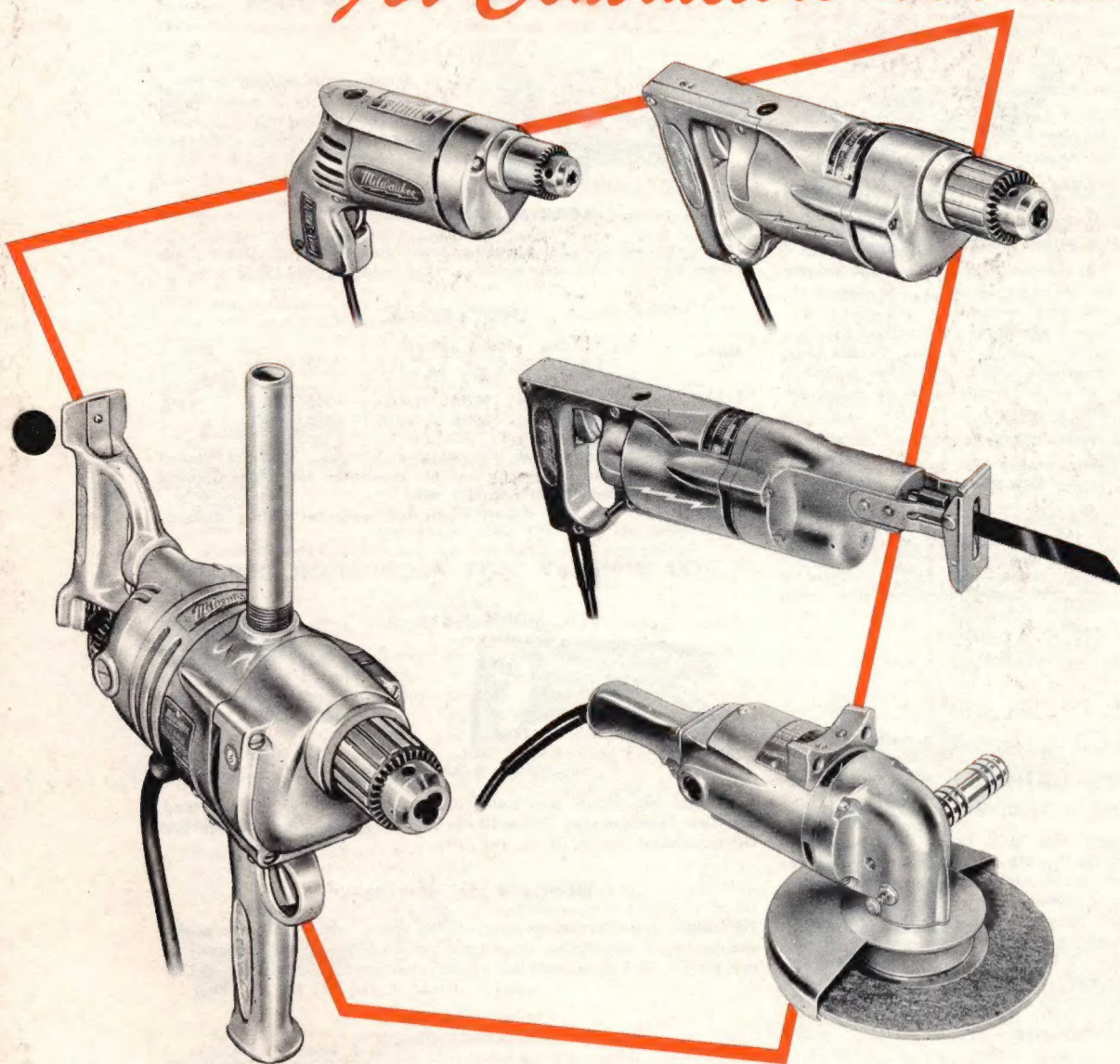




HEAVY-DUTY

ELECTRIC TOOLS

For Contractors and Industry



DRILLS



SAWS



SAWZALLS



GRINDERS



HAMMERS

SCREW
DRIVERSNUT
RUNNERS

SANDERS



POLISHERS



CONDENSED
CATALOG **G8**

CANADIAN

Milwaukee

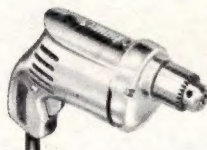
QUALITY ELECTRIC TOOLS

All prices shown herein are NET to user and apply ONLY within the United States and U. S. possessions . . . and are subject to change without notice.

PISTOL-TYPE DRILLS

1/4" MODEL 250 "IN-LINE" HOLE-SHOOTER

2.5 amp. MILWAUKEE-BUILT MOTOR



With new "palm push grip". This handful of power is an all ball bearing, ruggedly built, top quality electric drill. Helical cut hardened steel gears and ground steel shafts, momentary contact switch with locking button, Jacobs industrial gear-type chuck. NET PRICE...

SPECIFICATIONS

Capacity: 1/4" in metal—1/2" in wood Length: 8 1/2" Speed: no load, 2000 rpm; full load, 1250 rpm. Net Wgt.: 3 1/4 lbs. Shp'g. Wgt.: 6 lbs. Model 250 not available with reversing motor nor other than for 115 volts.

MODEL B "IN-LINE" HEAVY-DUTY HOLE-SHOOTER

MOST POWERFUL PISTOL DRILL ON THE MARKET
NEW PALM-PUSH GRIP



Puts the push where it counts—directly in line with the chuck. The easiest-to-use, most comfortable drill ever made. Less wrist fatigue—straighter holes—fewer broken twist drills. Double gear reduction . . . Ball and roller bearings throughout. Available in six models of various speeds.

WITH FAMOUS SPLIT-BODY DESIGN

Easily removable cover allows for quick easy access to all motor parts and switch . . . greatly simplifies inspection, cleaning and maintenance.

SPECIFICATIONS

Model No.	Cap. in Steel	Cap. in Wood	Chuck Speed (rpm)		Length Inches	Net Wt. (Lbs.)	Ship. Wt. (Lbs.)	Net Price
			No Load	Full Load				
3B	1/4"	1/2"	2000	1200	9 1/2	3 1/2	5	
4B	1/4"	1/2"	3500	2200	9 1/2	3 1/2	5	
5B	1/4"	1/2"	5000	3175	9 1/2	3 1/2	5	
7B	1/4"	1/2"	2500	1450	9 1/2	3 1/2	5	
2B	3/8"	5/8"	1000	600	10	3 1/2	5	
1B	3/8"	7/8"	650	380	10 1/4	3 3/4	6	

Spindle size: 3/8" dia. x 24 thread.

Model B Drills are not available with reversing motor.

MODEL A SIDE HANDLE GRIP

SHORTEST, MOST POWERFUL, PERFECTLY BALANCED DRILL



A small-size drill that's light, compact, easy to handle . . . and power-packed to carry you through the toughest job without a stall. Available in six models of varying speed ranges. Full ball and roller bearing construction. Trigger type starting switch, with lock button for continuous operation. Split body design for easy inspection and maintenance of all motor parts and switch.

SPECIFICATIONS

Model No.	Cap. in Steel	Cap. in Wood	Chuck Speed (rpm)		Length Inches	Net Wt. (Lbs.)	Ship. Wt. (Lbs.)	Net Price
			No Load	Full Load				
33A	1/4"	1/2"	2000	1200	7 3/4	3 3/4	6	
44A	1/4"	1/2"	3500	2200	7 3/4	3 3/4	6	
*55A	1/4"	1/2"	5000	3175	7 3/4	3 3/4	6	
77A	1/4"	1/2"	2500	1450	7 3/4	3 3/4	6	
22A	3/8"	5/8"	1000	600	8	3 7/8	6	
11A	3/8"	7/8"	650	380	8 1/4	4	7	

Spindle size: 3/8" dia. x 24 thread.

*Recommended only for drilling skin aluminum and other non-ferrous materials. Model A Drills are not available with reversing motor.

All Milwaukee Tools are powered with our OWN Universal AC-DC, 0 to 60 cycle motors . . . 115 volts standard. Also available for 230 volts at extra to price shown per tool.

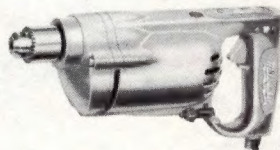
Any orders for tools other than standard non-reversing 115 volts are firm orders, not subject to cancellation.

REVERSING MOTORS are available for all drills (except where otherwise indicated). Add or extra to prices shown, as indicated for specific models. When desired with reversing motor, add suffix letter "R" to model number when ordering.

MODEL "S" SAW-GRIP HEAVY DUTY DRILLS

1/4" HEAVY-DUTY HOLE SHOOTERS

MODEL S-114



Powered for drilling at maximum capacity in metal, wood or composition materials. Well suited to handle a wide variety of application. NET PRICE

MODEL HS-114 (HIGH SPEED)

A light, rugged drill for continuous heavy-duty production line drilling in sheet metal or soft woods within its rated capacity. NET PRICE

SPECIFICATIONS

Model No.	Cap. in Steel	Cap. in Wood	Chuck Speed (rpm)		Length Inches	Net Wt. (Lbs.)	Ship. Wt. (Lbs.)
			No Load	Full Load			
S-114	1/4"	1/2"	1900	1100	10 3/4	5 1/4	6
HS-114	1/4"	1/2"	2500	1450	10 3/4	5 1/4	6

Both models are equipped with lifetime lubricated ball and roller bearings throughout . . . large multiple blade fan for cooler running . . . windings of high heat resistant wire.

Not available with reversing motors.

TYPE S HEAVY DUTY PRODUCTION DRILLS

MODEL S-214 1/4"



Designed for production line work. Preferred for its ability to stand up under constant use. NET PRICE...

MODEL S-256 5/16"

A rugged heavy-duty tool built for continuous use at its full rated capacity. Recommended where slower spindle speed and greater torque characteristics are a prime requisite. NET PRICE...

MODELS S-238, SF-238 3/8"

Particularly suited where greater drilling speed and big reserve power are of prime importance. If slightly slower drilling speed is desired, the Model SF-238 is offered as an alternate choice to the S-238. (Either Model) NET PRICE...

SPECIFICATIONS

Model No.*	Cap. in Steel	Cap. in Wood	Chuck Speed (rpm)		Length Inches	Net Wt. (Lbs.)	Ship. Wt. (Lbs.)
			No Load	Full Load			
S-214*	1/4"	1/2"	2000	1200	11 7/8	6	8
S-256*	5/16"	11/16"	1400	900	12	6	8
S-238*	3/8"	1	1000	600	12 1/4	6	8
SF-238*	3/8"	1	850	525	12 1/4	6	8

All models have heat-treated helical cut alloy steel gears and shafts. Grease-sealed ball and roller bearings throughout. Auxiliary side handle included as standard equipment except for Models S-114 and HS-114.

*Also available with reversing motor at extra to prices shown. Add suffix letter R to Model No. when so ordering.

GENERAL and SPECIAL APPLICATION DRILLS



MODEL BF-312 1/2"

For general purpose drilling. Ruggedly built and perfect for tough jobs such as drilling in concrete and heavy steel plate, etc. Double gear reduction. NET PRICE...

SLOW-SPEED HIGH-TORQUE MODELS S-412 and S-512 1/2"

A pair of powerful workhorses for slow speed... high torque... maximum power drilling of large holes in wood or metal, with hole saws, special cutters or expansive bits. Triple reduction gearing provides tremendous drilling torque. The Model S-512 is offered as an alternate choice to the S-412 if a slightly lower drilling speed with higher torque is desired. Either Model NET PRICE...

SPECIFICATIONS

Model No. [▲]	Cap. In Steel	Cap. In Wood	Chuck Speed (rpm)		Length Inches	Net Wt. (Lbs.)	Ship. Wt. (Lbs.)
			No Load	Full Load			
BF-312 [▲]	1/2"	1 1/8"	560	340	12 1/4	6 1/2	8
S-412 [▲]	1/2"	1 3/4"	450	300	12 1/4	6 3/4	9
S-512 [▲]	1/2"	1 3/4"	320	195	12 1/4	6 3/4	9

All the above models have full ball and roller bearings throughout... lifetime lubricated. Rigid lightweight aluminum die-cast housings and cyclonic type ventilation. Side handle adjustable full 360°, furnished as standard equipment.

[▲] All Models available with reversing motor at extra to prices shown. Add suffix letter R to Model No. when ordering.

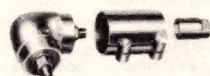
NEW

RIGHT ANGLE DRIVE UNITS



MODEL RP-1... For Pistol Drills. Models 3B — 2B — 1B — 7B — 33A — 22A — 11A — 77A... drills with no load speeds of 2500 rpm or less.

Attaches and locks to Milwaukee Pistol Drills for fast, easy tight spot drilling with chuck transferred from Drill to right angle head unit. Head swivels full 360 degrees and locks in any position. NET PRICE...

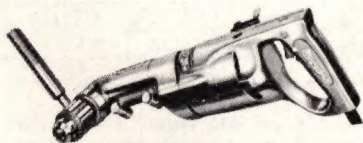


MODEL RAD-2 } For Saw
MODEL RAD-2R (Reversing Unit) } Grip Drills

Adds 2 more drilling speeds... LOW speed with more torque for boring large holes... high speed for drilling smaller diameter holes. Ideal for drilling between 12" center joists and similarly close quarters. Head swivels full 360°. Clamps in any position. Ball bearing equipped. Not adaptable to Model BF-312 below serial No. 17-6001. NET PRICE...

RAD 2R (Reversing Unit)

NET PRICE...



MILWAUKEE drills and RAD-2 available as complete units at net prices shown below. If metal carrying case is desired with tool, add to prices shown.

SPECIFICATIONS

Model No. [▲]	Chuck Capacity	RPM* Drill Only	RPM* On Low Side	RPM* On High Side	Ship. Wt. Lbs.	Net Price
S-214 RAD	1/4"	2000	1300	3000	11	
S-256 RAD	5/16"	1400	900	2100	11	
S-238 RAD	3/8"	1000	650	1500	11	
SF-238 RAD	3/8"	850	570	1275	11	
BF-312 RAD	1/2"	550	360	825	11	
S-412 RAD	1/2"	450	300	675	11	
S-512 RAD	1/2"	320	215	480	11	

[▲] All models available with reversing motor at extra to prices shown. Add suffix letter R to Model No. when ordering.
* RPM's indicated are at No Load rating.

MODEL LA-30A LONG ARM EXTENSION Designed for use with Right Angle Drive drill. For drilling in hard to reach spots overhead. Adjustable working range from 7 ft. to 12 ft. **Net Weight**... 17 lbs. **Shipping Weight**... 17 lbs. **NET PRICE**...

MODEL 612 — 1/2" "SHORTY" DRILL



NEW

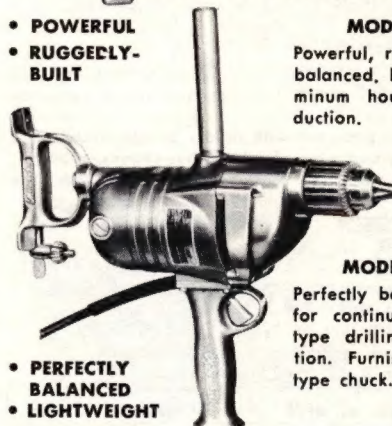
Rugged, compact, powerful... All Ball Bearing. 6.5 amp and 1/2 HP output at chuck. Double gear reduction. Most powerful drill of its size and type in the world. Perfect for close-quarter drilling... Light enough for use on ladders. NET PRICE...

HEAVY DUTY SUPER-HOLE-SHOOTERS

MODEL C-122 1/2" DRILL

Powerful, ruggedly built and perfectly balanced. Lightweight streamlined aluminum housing... double gear reduction.

Furnished with 1/2" Jacobs key type chuck. NET PRICE...



MODEL D-582 5/8" DRILL

Perfectly balanced and Power-A-Plenty for continuous heavy-duty production type drilling... double gear reduction. Furnished with 5/8" Jacobs key type chuck. NET PRICE...

• PERFECTLY BALANCED
• LIGHTWEIGHT

MODEL E-343 3/4" DRILL

For Extra Heavy-Duty Service Triple gear reduction for maximum torque. Lightweight aluminum housing for perfect balance. Furnished with 3/4" Jacobs key type chuck. NET PRICE...

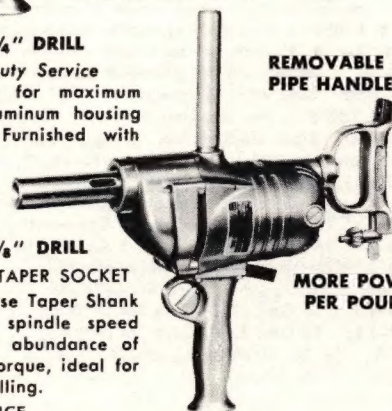
MODEL K-783 7/8" DRILL

WITH NO. 2 MORSE TAPER SOCKET For use with No. 2 Morse Taper Shank Drills. Slightly slower spindle speed than Model E-343. An abundance of power with maximum torque, ideal for general heavy duty drilling. NET PRICE...

Model K783-C

NET PRICE...

REMOVABLE PIPE HANDLE

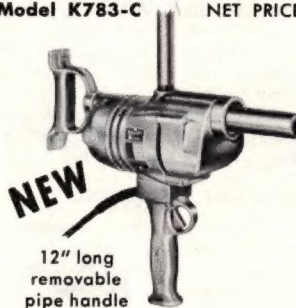


MORE POWER PER POUND

with 3/4" Jacobs chuck.

MODEL M-103 1" DRILL

WITH NO. 3 MORSE TAPER SOCKET TO ACCOMMODATE NO. 3 TAPER SHANK DRILL BITS



NEW

12" long removable pipe handle

Lightest weight 1" heavy-duty drill on the market. Comparable in power to heavier, higher priced drills of equal or greater capacity. NET PRICE...

SPECIFICATIONS

Model No.	Cap. In Steel	Cap. In Wood	Chuck Speed (rpm)		Length Inches	Net Wt. (Lbs.)	Ship. Wt. (Lbs.)
			No Load	Full Load			
[▲] 612	1/2"	1 1/2"	600	357	12 1/4	9 1/2	12
[▲] C-122	1/2"	1 1/2"	600	360	16	14 3/4	18
[▲] D-582	5/8"	1 5/8"	525	350	16 1/2	15 1/4	18
[▲] E-343	3/4"	1 3/4"	400	260	16 1/2	16 1/4	20
[▲] K-783	7/8"	1 7/8"	350	235	18	15 3/4	18
[*] K783-C	7/8"	1 7/8"	350	235	16 1/2	16 1/4	20
[▲] M-103	1"	2"	350	210	18 3/4	16 1/2	22

[▲] Available reversing... For model 612 add to price shown. For all other drill models listed above add extra. Add suffix letter R to Model No. when ordering for reversing.

^{*} Furnished with 3/4" Jacobs key type chuck.

All models have ball and roller bearings throughout and removable spade and pipe handles.

Milwaukee

DRILL ACCESSORIES

HORIZONTAL BENCH BASES



A-210



A-225



A-286



A-255



A-256

- A-202** Tapered File $\frac{1}{2}$ " diameter ($\frac{1}{4}$ " shank).....
A-210 Grinding Wheel $4\frac{1}{2} \times \frac{1}{2} \times \frac{3}{8}$ " hole.....
A-225 Wire Wheel Brush $4 \times \frac{1}{2} \times \frac{3}{8}$ " hole.....
A-226 Carbon Removing Brush $1\frac{1}{8}$ " diameter.....
A-286 Cloth Buffing Wheel $4 \times \frac{1}{2} \times \frac{3}{8}$ " hole.....
A-255 Arbor or Mandrel $\frac{1}{4}$ " shank.....
A-256 Arbor or Mandrel $\frac{3}{8}$ " shank.....

Washers and nuts are provided with arbors or mandrels.
 Grinding wheels, cloth buffs and wire wheel brushes require arbors.



A-288



88-430
12D-430



†



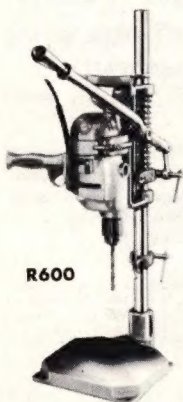
A-291 A-292

- A-288** Feed Screw Attachment for larger drills.....
A-291 No. 1 Morse Taper Socket for $\frac{1}{2}$ " drill.....
A-292 No. 2 Morse Taper Socket for $\frac{5}{8}$ ", $\frac{3}{4}$ " and $\frac{7}{8}$ " drills
 † Key-chuck heavy duty, 3-jaw, geared type, can be supplied for replacement on any size drill ($\frac{3}{4}$ " max.). See page 11.

Specify Serial No. of drill when ordering.

- 7A-1** Rubber flex chuck key holder (fits key No. 7).....
2B-1 Rubber flex chuck key holder (fits key No. 2).....
88-430 Pistol Drill Side Handle (complete) ($1\frac{1}{2}$ " ring).....
12D-430 Side Handle (complete) ($1\frac{1}{8}$ " ring).....
88-43-300 Side Handle Ring Assembly.....
88-43-1 Side Handle.....
Two-Prong Special spring action attachment plug, non-slip....
3P-1...Three prong Polarized Plug.....
3PA-1...Polarized Plug Adapter (converts 3 prong to 2 prong).
18G-1...18 Ga., 3 Wire Type S Cord — ft.....
16G-1...16 Ga., 3 Wire Type S Cord — ft.....
18G-8...16 Ga., 8 ft. Cord Set (w/plug).....
18GJ-8...18 Ga., 8 ft. Cord Set (w/plug).....
16G-10...16 Ga., 10 ft. Cord Set (w/plug).....
16G-15...16 Ga., 15 ft. Cord Set (w/plug).....
12GA... $\frac{1}{2}$ lb. Grease.....per can
1GA...1 lb. Grease.....per can

DRILL PRESS STANDS (Bench and Wall Types)



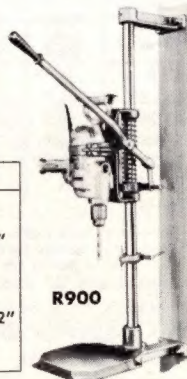
R600

Model R31A
 adaptable to drill models
 S-114, HS-114, S-214, S-256,
 S-238, SF-238, S-212, S-412,
 BF-312, S-512



R31A

Model R600 and R900
 adaptable to drill models
 C-122, D-582, E-343, K-783



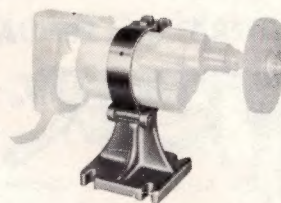
R900

SPECIFICATIONS	R31-A	R600	R900
Height of Column	24"	36"	48"
Maximum Feed	3"	$5\frac{1}{2}$ "	$5\frac{1}{2}$ "
Base Dimensions	8"x8"	10"x10"	10"x10"
Chuck to Base—Max.	13"	$17\frac{1}{2}$ "	$27\frac{1}{2}$ "
Distance Chuck to Post	$5\frac{1}{4}$ "	$6\frac{1}{2}$ "	$6\frac{1}{2}$ "
Weight without Drill	21 lbs.	45 lbs.	73 lbs.
Back Board Size			54"x7"x2"
Shipping Weight	25 lbs.	50 lbs.	90 lbs.
Net Price			

MODEL A-25

Adaptable to drill models S-114, HS-114, S-214, S-256, S-238, SF-238, S-412, BF-312 and S-512. Speed of Models S-114, HS-114 and S-214 are best suited for bench grinding, buffing and polishing operations.

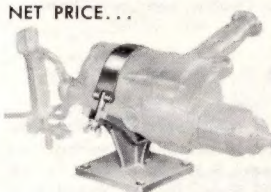
Shipping weight 3 lbs.
 NET PRICE...



MODEL A-35

For Models C122, D-582, E-343, K-783 and M-103.

Shipping weight 7 lbs.
 NET PRICE...



SCREW-DRIVERS — NUT-RUNNERS

MODEL 614B AND 614M WITH POSITIVE DRIVE CLUTCH

Ideal for driving wood screws where counter sinking is important. NET PRICE...
 † Available reversing... See note below table.

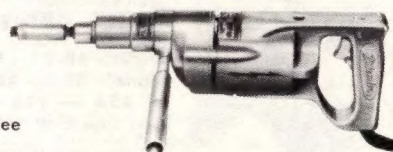


MODEL 615B AND 615M... WITH ADJUSTABLE TORQUE RELEASE CLUTCH

Clutch tension adjusted to any desirable driving torque with ordinary hand screwdriver through throat opening of driver unit.
 † Available reversing... See note below table. NET PRICE...

MODEL 624 WITH POSITIVE DRIVE CLUTCH

For heavy duty service. Driving action stops upon release of forward pressure. Full Ball and Roller bearings. NET PRICE...
 † Available reversing... See note below table.



MODEL 625... WITH ADJUSTABLE TORQUE RELEASE CLUTCH



For heavy duty use. Clutch disengages automatically when screws or nuts are set. To adjust turn knurled collar to right or left to increase or decrease driving tension. NET PRICE...
 † Available reversing... See note below table.

SPECIFICATIONS

Model No.†	Speed (r.p.m.)	Capacity		Bit Shank Size	Spindle Offset	Length in Inches	Net Weight Lbs.	Shipping Weight Lbs.
		Wood Screws	Bolts & Nuts					
614B	650	Nos.	Nos.	$\frac{1}{4}$ " Hex	$\frac{3}{4}$ "	10	4 $\frac{1}{2}$	6
614M	1000	4 to 12	4 to 12	$\frac{1}{4}$ " Hex	$\frac{3}{4}$ "	11	4 $\frac{1}{2}$	6
615B	650	4 to 12	4 to $\frac{1}{4}$	$\frac{1}{4}$ " Hex	$\frac{3}{4}$ "	11	4 $\frac{1}{2}$	6
615M	1000	4 to 12	4 to $\frac{1}{4}$	$\frac{1}{4}$ " Hex	$\frac{3}{4}$ "	11	4 $\frac{1}{2}$	6
625	450	10 to 16	10 to $\frac{3}{8}$	$\frac{7}{16}$ " Hex	1"	13 $\frac{3}{4}$	8 $\frac{1}{2}$	10
624	450	10 to 16	10 to $\frac{3}{8}$	$\frac{7}{16}$ " Hex	1"	15	9	11

† Reversing motor available at extra to price shown, and add suffix letter R to Model No. when so ordering.

STANDARD EQUIPMENT — Model 614 and 615 series. 3 bits* with finders, one $\frac{1}{4}$ " Hex Shank Driver. 3 varied tension torque release springs for Model 615 series only.

STANDARD EQUIPMENT — Model 624 and 625 Series... 3 bits* with finders one $\frac{7}{16}$ " Hex Shank driver for $\frac{1}{2}$ " drive sockets. 2 varied tension torque release springs for Model 625 only.

* To fit No. 6, 8 and 10 flat head and No. 8, 10 and 12 round head screws.

† To fit No. 10, 12 and 14 flat head and No. 12, 14 and 16 round head screws.

MODEL SDA-1 SCREW DRIVER UNIT

With positive clutch. Adaptable only to drill Models S-412 and S-512. 3 sizes of bits with finders and one $\frac{7}{16}$ " hex. shank $\frac{1}{2}$ " square driver for $\frac{1}{2}$ " drive sockets are included as standard equipment.

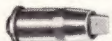
Net weight 1 lb., shipping weight 3 lbs.
 NET PRICE...





QUALITY ELECTRIC TOOLS

SCREW SHOOTER ACCESSORIES

PHILLIPS SCREW
BITSCREW DRIVER
BITHEX. SHANK
SQUARE DRIVERBIT WITH FINDER
FOR MODELS
614B, 614BR, 615B, 615BR
624-624RBIT WITH FINDER
FOR MODELS
614B, 614BR, 615B, 615BR

1/4" HEX. SHANK BITS FOR SLOTTED HEAD SCREWS

FOR MODELS 614B, 614M, 615B, 615M

Screw Size	3 1/2" O.A. Length Bit Only		3 1/2" O.A. Length Bit and Finder		1-15/16" O. A. Lgth. Bit Only	
	Part No.	Net Price	Part No.	Net Price	Part No.	Net Price
6F- 8R	320-M		M-320		320-3	
8F-10R	320-P		P-320		320-4	
10F-12R	320-R		R-320		320-5	
12F-14R	320-S		S-320		320-6	
14F-16R	320-T		T-320		....	....
Phillips No. 2	....	....	....	....	492	
Phillips No. 3	....	....	....	....	493	

Screw Size	Finders for 1-15/16" Bits		Insert Bits		Insert Bit Holder	
	Part No.	Net Price	Part No.	Net Price	Part No.	Net Price
6F- 8R	6A68-1		445-2		490 For Use with Insert Bits	
8F-10R	6A810-1		445-3			
10F-12R	6A1012-1		445-4			
12F-14R	6A1214-1		445-5			
14F-16R	....	....	445-6			
Phillips No. 2	....	....	440-2			
Phillips No. 3	....	....	440-3			

1/4" Square Driver 2" long (for sockets).....EX-250 B

7/16" HEX. SHANK BITS for SLOTTED HEAD SCREWS

FOR SCREW-DRIVER MODELS 624 AND 624R

Screw Size	3 1/2" O.A. Length Bit Only		3 1/2" O.A. Length Bit and Finder	
	Part No.	Net Price	Part No.	Net Price
8F-10R	321-P		P-321	
10F-12R	321-R		R-321	
12F-14R	321-S		S-321	
14F-16R	321-T		T-321	
16F-18R	321-U		U-321	
18F-20R	321-U		U-321	
20F-22R	321-W		W-321	
Phillips No. 2	482			
Phillips No. 3	483			

Insert Bits for Phillips Head Screws		Insert Bit Holder	Net Price
No. 2 Phillips Insert Bit.....	480-2	480 For Use with Insert Bits	
No. 3 Phillips Insert Bit.....	480-3		
No. 4 Phillips Insert Bit.....	480-4		
1/2" Square Driver 3" long (for Sockets)			EX-501

ELECTRIC HAMMER

MODEL H-834

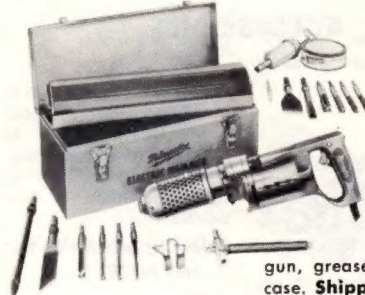
Limited set including Model H-834 hammer complete with taper star drill chuck, 1/2" star drill, drift key, tool retaining spring, grease gun, grease and handy all-steel carrying case. NET PRICE...



SPECIFICATIONS

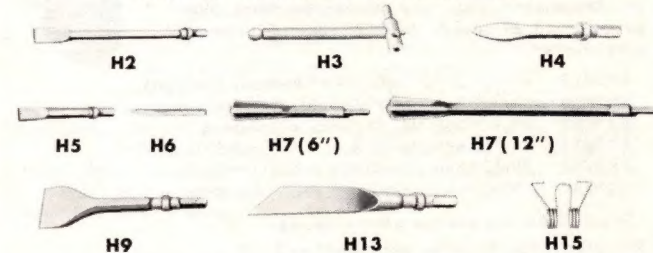
Efficient Operating Limit..... 3/8" to 7/8"
Maximum Operating Dia. 1 1/8"
Capacity in Average Concrete—1/2" hole, 3" deep in one minute.
Blows per minute..... approximately 3000
Length overall 16 7/8"
Net Weight..... 11 1/2 lbs. Shipping Weight..... 25 lbs.

MODEL H-834A



Complete set includes Electric Hammer with taper star drill chuck, one drift key, one tool retaining spring for chisels, one each: bull point, cold chisel, brick cleaning chisel, and mortar cutting chisel, eight assorted star drills, 1/4", 5/16", 3/8", 7/8", 1/2", 5/8", 3/4", and 7/8" sizes, a grease gun, grease and handy all steel carrying case. Shipping weight 30 lbs. NET PRICE...

ELECTRIC HAMMER ACCESSORIES



- H2 Cold Chisel, 5/8"x12" (Hex Shank).....
H3 Star and Hamrtwist Drill Chuck.....
H3a No. 14 Rawl Drill Chuck (for Rawl drills No. 6 to 14 incl.)
H3b No. 20 Rawl Drill Chuck (for Rawl drills
No. 16 to 5/16", 20 to 3/8", 7/8" to 7/8").....
H4 Bull Point 5/8"x12" (Hexagon Shank).....
H5 Cold Chisel 5/8"x7" (Hexagon Shank).....
H6 Drift Pin for Star and Rawl Drill Chucks.....

H-7 STAR DRILLS (MILWAUKEE Taper Shank)

Diameter	6"	12"	Diameter	6"	12"
1/4" 7H6-14		7H12-14	5/8" 7H6-58		7H12-58
5/16" 7H6-56		7H12-56	3/4" 7H6-34		7H12-34
3/8" 7H6-38		7H12-38	7/8" 7H6-78		7H12-78
7/16" 7H6-76		.... 1"	7H6-1		7H12-1
1/2" 7H6-12		7H12-12	1 1/8" 7H6-118		....

▲ Use H3 Star Drill Chuck (MILWAUKEE Taper)

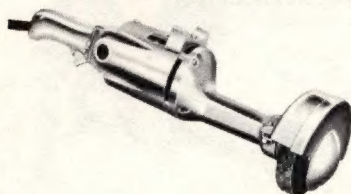
- H9 Brick Cleaning Chisel (Hexagon Shank).....
H13 Mortar Cutting Chisel (Hexagon Shank).....
H15 Tool Retaining Spring
12GB Type B Hammer Grease... 1/2 lb. can.....
1GB Type B Hammer Grease... 1 lb. can.....
1GG-1 Grease Gun— Pump Type.....

All tools with hexagon shank fit directly into hammer without chuck, and are held in place with H15 Tool Retaining Spring.

PHILLIPS SHELL CHUCKS

- PH-14 Phillips Shell Chuck—for S-14 Shell (1/4" bolt).....
PH-56 Phillips Shell Chuck—for S-16 Shell (5/16" bolt).....
PH-38 Phillips Shell Chuck—for S-38 Shell (3/8" bolt).....
PH-12 Phillips Shell Chuck—for S-12 Shell (1/2" bolt).....
PH-58 Phillips Shell Chuck—for S-58 Shell (5/8" bolt).....

HEAVY DUTY PORTABLE GRINDERS



4, 5 and 6-Inch Dia. Wheels

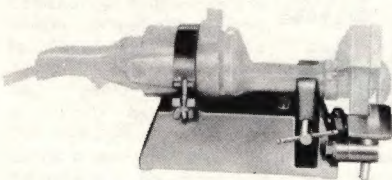
Oversize double-row ball bearings at front end of spindle. Ball bearings throughout. Grit free air intake. Adjustable steel wheel guard and one general purpose grinding wheel included as standard equipment.

SPECIFICATIONS

Model No.	Wheel Dim.	Speed R.P.M.	Length Inches	Net Wt. (lbs.)	Ship. Wt. (lbs.)	Net Price
V-491	4"x1"x1/2"	5550	21 5/8	13 3/4	17	
V-591	5"x1"x3/8"	4000	21 3/4	17 3/4	21	
V-691	6"x1"x3/8"	4000	22	18 5/8	22	

GRINDER ACCESSORIES

MODEL A-26 GRINDER BENCH BASE



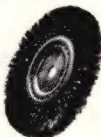
Quickly converts V-491, V-591 or V-691 Portable Grinder into 4", 5" or 6" Bench Grinder. Fitted with tool rest that is fully adjustable to any position.

Shipping weight 24 lbs.

NET PRICE...

KNOT WIRE WHEEL BRUSHES

Made of 30 ga. wire. Used for cleaning steel surfaces and castings. Removes rust, scale, file marks, etc. Recommended for very severe operations. May be operated at speeds double those of ordinary wire wheels.



4KW12	4"x1/2" or 5/8" hole (for 4" Portable Grinders)
5KW58	5"x3/8" hole (for 5" Portable Grinders)
6KW58	6"x3/8" hole (for 6" Portable Grinders)
6KW12	6"x1/2" hole (for 1/4 & 1/2 H.P. Bench Grinders)
7KW58	7"x3/8" hole (for 1/2 H.P. Bench Grinders)
10KW34	10"x3/4" hole (for 1 H.P. Bench Grinders)

*Specify hole size desired when ordering.

Shipping Weight (Avg. per brush) — 2 lbs.

GRINDING WHEELS



For grinding down welds, removing scale, sharpening tools and many other applications. A high quality, long life, fast cutting, general purpose grinding wheel especially adapted to high speed grinder service.

4GW12	4"x1"x1/2" holes* (for 4" Portable Grinders)
5GW58	5"x1"x3/8" hole (for 5" Portable Grinders)
6GW58	6"x1"x3/8" hole (for 6" Portable Grinders)
6GW12	6"x3/4"x1/2" hole (for 1/4 & 1/2 H.P. Bench Grinders) ...
7GW58	7"x1"x3/8" hole (for 1/2 H.P. Bench Grinders)
8GW58	8"x1"x3/8" hole (for 3/4 H.P. Bench Grinders)
10GW34	10"x1"x3/4" hole (for 1 H.P. Bench Grinders)

Specify whether fine, medium, or coarse grit is desired.

Shipping Weight (Avg. per wheel) — 2 lbs.

CLOTH BUFFING WHEEL

For polishing and buffing metal surfaces. When coated with glue and dipped in emery grits, they may be used for smooth finish grinding or rough polishing.

4CB12	4"x3/4"x1/2" or 5/8" hole* (for 4" Portable Grinders) ..
5CB58	5"x1"x3/8" hole (for 5" Portable Grinders)
6CB58	6"x1"x3/8" hole (for 6" Portable Grinders)
6CB12	6"x3/4"x1/2" hole (for 1/4 & 1/2 H.P. Bench Grinders) ...
7CB58	7"x1"x3/8" hole (for 1/2 H.P. Bench Grinders)
10CB34	10"x1"x3/4" hole (for 1 H.P. Bench Grinders)

*Specify hole size desired when ordering.

Shipping Weight (Avg. per wheel) — 1 lb.

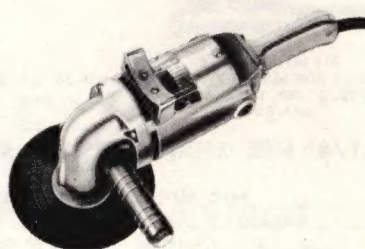
HEAVY DUTY SANDER-GRINDERS

With MILWAUKEE "Exclusive" Free Wheeling Clutch Drive Absorbs harmful oscillating action of discs and prevents tooth wearing back lash shock to gears. Result: smoother running, longer tool life.

MODEL U-177 — 7"

Sturdily built, light weight, ball and roller bearings throughout and powered by 1 1/4 H.P. MILWAUKEE-Built AC-DC motor. Well balanced, easy to handle and fitted as standard with nested spring steel backing disc of 5" and 7" dia.

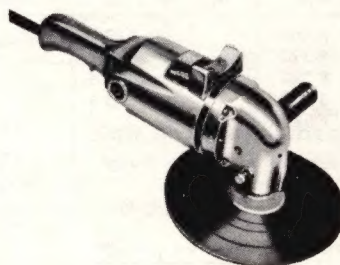
NET PRICE...



MODEL U-199 9"

Built for toughest jobs. Its cool running and its powerful sanding or grinding action cannot be stalled. Powered by 1 1/2 H.P. MILWAUKEE AC-DC motor and standard equipment includes nested set of 3 spring steel backing discs of 5", 7" and 9" dia.

NET PRICE...



MODEL U-199L

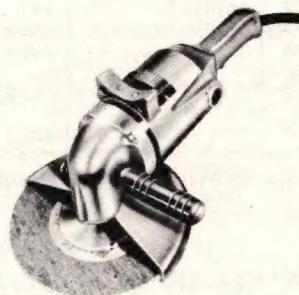
Same as Model U-199 less disc assembly and hub. The Model U-199L is offered where grinder is used with cup grinding wheels or cup wire brushes.

NET PRICE...

MODEL U-199W 9"

For production type, heavy-duty grinding applications. The U-199W is equipped with a 9U-100 Rough Grinding 9"x1/4"x3/8" hole, nylon impregnated, Safety Reinforced Disc Wheel supported by Alum. Disc Wheel Hub and including guard. Specify Model No. U-199W when ordering.

NET PRICE...



SPECIFICATIONS

Model No.	Disc Size	Spindle Thread Size	No Load Speed RPM	Length Inches *	Net Wt. (lbs.)	Ship. Wt. (lbs.)
U-177	7"	5/8"x11	5000	15 1/2	12 3/4	17
U-199	9"	5/8"x11	5000	15 1/2	15	19
U-199W	9"	5/8"x11	5000	15 1/2	16 1/4	21
U-199L		5/8"x11	5000	15 1/2	13 1/2	18

*Overall length of tool only ... not including disc.

SANDER ACCESSORIES

FLEXIBLE SPRING STEEL BACKING PADS

Lightest weight, most perfectly balanced, indestructible and coolest operating backing pads for smoother and most efficient sanding or grinding. 4" aluminum hub assembly supporting removable 5", 7" and 9" spring steel backing discs.

3UP16-700 — 7" Sander Backing Pad Assembly.

Shipping weight, 1 1/4 lbs. PRICE...

9UP16-900 — 9" Sander Backing Pad Assembly.

Shipping weight, 1 1/4 lbs. PRICE...



"SPIRO" ABRASIVE SANDING DISCS

7" AND 9" DIAMETERS
16-24-36-60- AND 80 GRIT



Extra hard aluminum oxide grits are silicon carbide, phenol resin bonded to a sturdy fiber backing. Special spiral design speeds cutting 12 times faster... cools as it cuts... lasts 5 times longer before gumming up and because they're waterproof they can be dipped in gasoline and scrubbed for re-use if grit becomes clogged.

7" DIAMETER				
Grit		Price Each		Carton of 25
16	7G16-1		7G16-25	
24	7G24-1		7G24-25	
36	7G36-1		7G36-25	
60	7G60-1		7G60-25	
80	7G80-1		7G80-25	
9" DIAMETER				
Grit		Price Each		Carton of 25
16	9G16-1		9G16-25	
24	9G24-1		9G24-25	
36	9G36-1		9G36-25	
60	9G60-1		9G60-25	
80	9G80-1		9G80-25	

Shipping Weight (Avg. per carton of 25) — 7" dia. — 2 lbs.
9" dia. — 3 lbs.

ABRASIVE DISC TRIMMER



MODEL DT-101

Greater savings through reclaiming and re-use of edge-worn abrasive discs can be quickly realized with this tool. Edge-worn discs can be easily cut down to smaller useable diameters for maximum

service life and economy. Fitted with adjustable center hole pilot and calibrated indicator, it handles all discs ranging from 4" to 9" diameter.

Shipping Weight — 5 lbs.

NET PRICE...

SAFETY REINFORCED GRINDING DISCS



With high safety factor permitting high speed operation. Nylon reinforced, they resist breakage from twisting torque or lateral pressure. Available in 7" or 9" diameters.

7U-100	Rough Wheel	.....7"x1/4"x7/8" Hole.....
7U-200	Finish Wheel	.....7"x1/4"x7/8" Hole.....
9U-100	Rough Wheel	.....9"x1/4"x7/8" Hole.....
9U-200	Finish Wheel	.....9"x1/4"x7/8" Hole.....
79U-120	Alum. Disc. Wheel Hub Adapter (4 oz.).....	

Shipping Weight (Avg. per wheel) — 2 lbs.

9U3-1 Steel Disc Wheel Guard...adaptable only to 9" Grinders with serial no. 48-3300 and above —

Shipping Weight 2 lbs.....

FLARED CUP GRINDING WHEELS

Resinoid bonded...for general all-purpose grinding work.

4" dia. 4FCGW-12	..1/2"-13 threaded hole*..
4" dia. 4FCGW-58	..5/8"-11 threaded hole*..
5" dia. 5FCGW-12	..1/2"-13 threaded hole†..
5" dia. 5FCGW-58	..5/8"-11 threaded hole†..

* For 7" model U-177 Sander. † For model U-199 and U-199L Sander

4CWG Steel Guard for 4" Flared Cup Grinding Wheels.....

5CWG Steel Guard for 5" Flared Cup Grinding Wheels.....

Shipping Weight (Avg. per wheel) — 2 lbs.
(Avg. per guard) — 1 lb.

KNOT WIRE CUP BRUSHES

Made of finest quality wire to give long service on tough cleaning jobs.

4" dia. 4KWCB-12	..1/2"-13 threaded hole*..
4" dia. 4KWCB-58	..5/8"-11 threaded hole*..
6" dia. 6KWCB-12	..1/2"-13 threaded hole†..
6" dia. 6KWCB-58	..5/8"-11 threaded hole†..

* For 7" model U-177 Sander. † For model U-199 and U-199L Sander

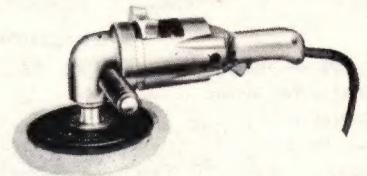
Shipping Weight — 4" Brush — 2 lbs.
6" Brush — 3 lbs.

POLISHERS

7" LIGHTWEIGHT HEAVY DUTY POLISHER

MODEL P-175

With MILWAUKEE exclusive free wheeling clutch drive. Standard equipment includes detachable side handle, 7" resilient rubber backing pad, 7 1/2" deep pile "AMCOR" polishing pad, 1 pt. BluShel car polish. Net Weight — 9 1/4 lbs.



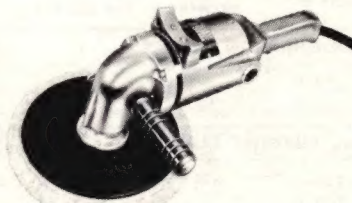
Shipping Weight — 16 lbs.
NET PRICE...

9" HEAVY DUTY POLISHER

MODEL P-139

Built to withstand the punishment of continuous day-in and day-out use, 8 1/2" reinforced rubber backing pad, 9" "AMCOR" polishing pad and detachable side handle included as standard equipment.

Shipping Weight — 18 lbs.
NET PRICE...



Net Weight — 12 3/4 lbs.

SPECIFICATIONS

Model No.	Speed No Load R.P.M.	Length Inches *	Net Weight (lbs.)	Ship. Weight (lbs.)
P-175	1750	14 1/2	9 1/4	16
P-139	1450	15 1/4	12 3/4	18

*Overall length of tool only...not including pad.

Both of the above models are equipped with ball and roller bearings throughout, momentary contact, quick release safety switch with lock button for continuous operation. Large multiple blade fan for greater cooling capacity, helical cut heat-treated alloy steel gears and shafts for greater power efficiency and spindle locking button for easy changing of pad or bonnet.

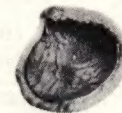
POLISHER ACCESSORIES



MOULDED RUBBER BACKING PAD



AMCOR PAD



LAMBSWOOL PAD



LAMBSWOOL BONNET

75P-180	7" dia.	Moulded Rubber Backing Pad.....
9P-180	8 1/2" dia.	Moulded Rubber Backing Pad.....
75P200	7 1/2" dia.	AMCOR Polishing Pad.....
9P200	9" dia.	AMCOR Polishing Pad.....
7LWB	7" dia.	Lambswool Bonnets.....
9LWB	9" dia.	Lambswool Bonnets.....
7LWP	7" dia.	Lambswool Pad.....
9LWP	9" dia.	Lambswool Pad.....



"BluShel" HIGH LUSTRE POLISH

A high luster polish that cleans, polishes and seals in one easy operation. Leaves a perfectly dry, clean brilliant shine that will last for months.

NET PRICES:

Pt. 75BSP Ql. 75BSQ Gal. 75BSG

BONNET CLEANING TOOL

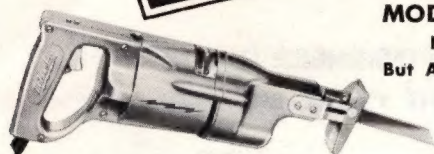


Cleans, fluffs, vitalizes buffing and polishing bonnets in 60 seconds, while rotating on tool. Removes glazed surface and loosens packed wool in bonnets or pads and prolongs their life...

75 CT

Milwaukee

QUALITY ELECTRIC TOOLS



MODEL 414 SAWZALL NOT AN ATTACHMENT But A Complete . . . Heavy-Duty Electric Powered HACKSAW

Model 414 kit includes model 414 Sawzall complete with sample set of assorted Sawzall blades and handy all steel carrying case. NET PRICE . . .



SPECIFICATIONS

Length of Stroke $\frac{3}{4}$ "
Strokes Per Minute 2250
Overall Length $14\frac{1}{2}$ "
Net Weight (lbs.) $6\frac{3}{4}$ lbs.
Shipping Weight (includes carrying case and blades) 16 lbs.

Socket Head Blade Locking Cap Screw each . . .
minimum order (10) screws

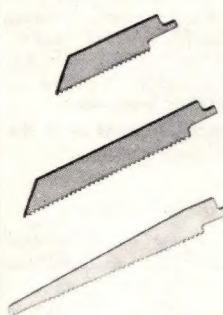
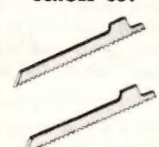
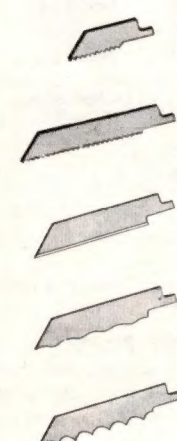
1AW-3 . . . Socket Head Blade Locking Cap Screw Wrench

Quantity Set RK1 50 Cap Screws)
25 Wrenches (per set

Sawzall Grease 12GB $\frac{1}{2}$ lb.
(Type B) 1GB 1 lb.

SAWZALL BLADES...A Type and Length For Every Sawing Need

The table below covers most of the common type materials with specific SAWZALL blades recommended for sawing each. When sawing materials other than those indicated but similar in nature, the blade as recommended for the comparable material could likewise be used.

	BLADE NO.	LENGTH INCHES	NO. TEETH PER INCH	RECOMMENDED FOR CUTTING	NET PRICE
ALL-PURPOSE BLADES 	ROUGHING-IN BLADES			(Packed, priced and sold in cartons of 5 blades only)	
	103-1	6	7	General roughing-in work in wood.	Pkg. of 5
	103-2	12		Will resist embedded nails.	Pkg. of 5
	ALL PURPOSE BLADES			(Packed, priced and sold in cartons of 10 blades only)	
	106-1	3½	6	All woods without nails. Fiberboard, "Transite," asphalt and plaster. 12" blades for making inaccessible flush cuts in wood.	
	106-2	6			
	106-11	12			
	106-3	3½	10	Nail embedded woods. Plywood, asbestos and plaster. 12" blades for making inaccessible flush cuts in nail embedded woods.	
	106-4	6			
	• 106-4R	6			
106-12	12	18	Opening wooden crates and boxes. 12" blades for removing wood siding, asbestos shingles, etc.		
106-5	3½				
106-6	6				
• 106-6R	6	24	Light gauge non-ferrous metals; aluminum, etc.		
106-13	12				
106-7	3½				
106-8	6				
SCROLL CUT 	WOOD SCROLL BLADES			(Packed, priced and sold in cartons of 10 blades only)	
	114-1	3⅞	7	Irregular contours in wood, fiberboard, asphalt and asbestos.	
	METAL SCROLL BLADES			(Packed, priced and sold in cartons of 10 blades only)	
	116-1	3⅞	10	Irregular contours in heavy gauge metal, "Transite" and fiberboard.	
	116-2	3⅞	14	Irregular contours in heavy gauge metals.	
HI-SPEED BLADES 	HI-SPEED METAL SCROLL BLADES			(Packed, priced and sold in cartons of 10 blades only)	
	110-2	2½	18	Irregular contours in sheet metals heavier than 18 gauge.	
	110-3	2½	24	Irregular contours in sheet metals lighter than 18 gauge.	
	HI-SPEED HACKSAW BLADES			(Packed, priced and sold in cartons of 10 blades only)	
	117-1	2½	14	Metals heavier than ⅛" (Angles, bar stock, "Transite," hard rubber, fiber, etc.)	
	117-2	4			
	117-9	6			
	117-3	2½	18	Metals heavier than 18 gauge; conduit, pipe, channels, tubing, etc.	
	117-4	4			
	117-10	6			
	117-5	2½	24	Metals lighter than 18 gauge; sheet, trim and tubing.	
	117-6	4			
	117-11	6			
	117-7	2½	32	Very light gauge metals; sheet, trim and tubing.	
	117-8	4			
	KNIFE EDGE BLADES			(Packed, priced and sold in cartons of 10 blades only)	
	107-1	4	Knife	Rubber, sponge, leather, felt and other resilient materials.	
108-1	4	Wave Edge	Corrugated cardboard, laminated fiberglass tape and sheets, paper, cork, etc.		
109-1	4	Scalloped Edge	Rubber, corrugated board, leather, laminated fiberglass tape and sheets, etc.		

• All blades have teeth set to cut on up stroke . . . except on 106-4R and 106-6R which have teeth set to cut on down stroke.

B1 ECONOMY BLADE ASSORTMENT

Economy set consists of 51 blades of most popular types and sizes used. Complete set includes: (5) 114-1, (5) 110-2, (5) 117-4, (5) 106-1, (5) 106-2 (10) 106-3, (10) 106-4, (2) 103-2, (4) 103-1.

Shipping Weight 2 lbs.

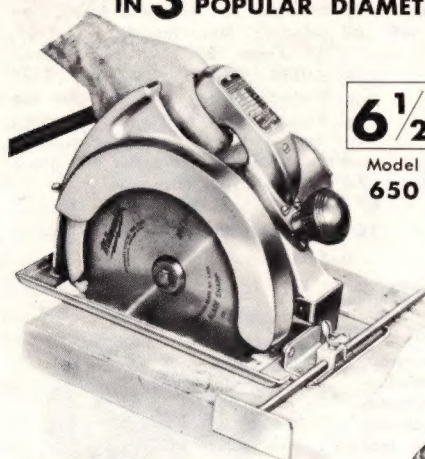
A value for NET



Milwaukee

QUALITY ELECTRIC TOOLS

SAWS HI-SPEED HEAVY DUTY TYPE IN 3 POPULAR DIAMETER SIZES



6 1/2"	7"	8 1/4"
Model 650	Model 700	Model 825

ALL MODELS POWERED BY

Full 1 1/2 HP Motor

AND EQUIPPED WITH

Exclusive

COASTER-BRAKE CLUTCH DRIVE*

Other Features Include

- BALL AND ROLLER BEARINGS
- FULL MITERING 0 TO 45° plus DEPTH ADJUSTMENT
- SAFE . . . BLADE AT RIGHT SIDE • TELESCOPING AND AUTOMATICALLY RETRACTABLE BLADE GUARD
- EXTRA BROAD RIGID ONE PIECE STEEL SHOE
- COMBINATION SAW BLADE and RIP FENCE

*Free-Wheeling clutch drive completely absorbs the high frequency oscillation (rocking) of the saw blade and prevents back-lash shock to gears . . . reduces maintenance . . . increases tool life.

SPECIFICATIONS	MODEL 650	MODEL 700	MODEL 825
Saw Blade Size . . .	6 1/2" — 5/8" hole	7" — 5/8" hole	8 1/4" — 5/8" hole
Depth of Cut at 90°	0" to 2 3/32"	0" to 2 13/32"	3/4" to 3 1/32"
Max. Depth at 45°.	1 3/4"	1 15/16"	2 3/4"
Motor-Universal			
A.C.-D.C.	1 1/2 H.P.	1 1/2 H.P.	1 1/2 H.P.
Blade Speed (Idle) .	6800 RPM	5000 RPM	5000 RPM
Gearing	Helical Cut Steel	Helical Cut Steel	Helical Cut Steel
Net Weight	12 1/2 lbs.	12 3/4 lbs.	14 1/2 lbs.
Ship. Weight	31 lbs.	31 lbs.	33 lbs.
	Model 650	Model 700	Model 825
NET PRICE (less case)			
	Model 650C	Model 700C	Model 825C
NET PRICE (with case)			

All saws furnished complete with steel carrying case unless otherwise specified.

STANDARD EQUIPMENT — Combination (Rip and Cross Cut) Saw Blade . . . Rip guide, 3 wire heavy-duty rubber covered cord complete with unbreakable plug and 2 utility wrenches.



HANDY ALL STEEL CARRYING CASE

For all MILWAUKEE saw models . . . in attractive hammer-tone-finish. Provides ample space for extra blades, wheels and accessories. Fitted with snap lock cover and easy grip handle.

Model S-680 NET PRICE . . .

Accommodates All Models

SAW BLADES AND ACCESSORIES

SAW BLADES TO MEET EVERY CUTTING NEED



FLOORING

RIP-CUT

COMBINATION

CROSS-CUT

MILWAUKEE saw blades are made from the highest quality chrome nickel steel . . . precision ground, tempered, set and filed to assure many hours of dependable service. Each blade is perfectly balanced and individually tensioned to provide faster smoother, quieter, more accurate sawing and longer blade service life.

COMBINATION SAW BLADES

S-601 — 6" dia. x 1/2" hole	.....
S-651 — 6 1/2" dia. x 5/8" hole	.....
S-721 — 7" dia. x 5/8" hole	.....
S-821 — 8 1/4" dia. x 5/8" hole	.....

CROSS-CUT SAW BLADES

S-602 — 6" dia. x 1/2" hole	.....
S-652 — 6 1/2" dia. x 5/8" hole	.....
S-722 — 7" dia. x 5/8" hole	.....
S-822 — 8 1/4" dia. x 5/8" hole	.....

RIP-CUT SAW BLADES

S-603 — 6" dia. x 1/2" hole	.....
S-653 — 6 1/2" dia. x 5/8" hole	.....
S-723 — 7" dia. x 5/8" hole	.....
S-823 — 8 1/4" dia. x 5/8" hole	.....

FLOORING BLADES

S-604 — 6" dia. x 1/2" hole	.....
S-654 — 6 1/2" dia. x 5/8" hole	.....
S-724 — 7" dia. x 5/8" hole	.....
S-824 — 8 1/4" dia. x 5/8" hole	.....

ABRASIVE CUTTING WHEELS



Safety reinforced nylon impregnated and specially bonded of uniform grit. Available in two types for cutting metal, or concrete, stone, transite, brick, etc.

S-610 — 6" x 1/8" x 1/2" hole — Masonry Cutting	.....
S-611 — 6" x 1/8" x 1/2" hole — Metal Cutting	.....
S-657 — 6" x 1/8" x 5/8" hole — Masonry Cutting (For 6" & 7" Saws)	.....
S-658 — 6" x 1/8" x 5/8" hole — Metal Cutting (For 6" & 7" Saws)	.....
S-710 — 7 1/2" x 1/8" x 5/8" hole — Masonry Cutting (For 8 1/4" Saws)	.....
S-711 — 7 1/2" x 1/8" x 5/8" hole — Metal Cutting (For 8 1/4" Saws)	.....

PLUMBERS RIGHT ANGLE DRIVE KIT

KIT NO. 412K* OR 512K



The S-412 MILWAUKEE drill and RAD-2 Right Angle Drive is furnished in kit form for the special benefit of the plumber. Only tool for drilling around corners, between 12" center joists or similarly close quarters. The Model 412K contains S-412 1/2" heavy-duty drill, RAD-2 Right Angle Drive, 1 1/8" Auger Bit, 2 3/8" Selffeed wood boring bit, open end wrench and chuck remover pin.

512K Kit: Same as 412K except equipped with S-512 Drill. Provides slower speed and higher torque than S-412.

Shipping Weight...22 lbs. NET PRICE...

If reversing motor is desired with S-412 or S-512 RAD drill, add extra to kit price shown. Add suffix letter R to Model No. when ordering.

ELECTRICIANS RIGHT ANGLE DRIVE KIT

KIT NO. 312-K



Ideal for drilling clean cut lead-in holes for B-X, conduit pipe, Romex cables, etc. The Model BF-312 is especially designed, ruggedly built and equipped for the specific job needs of the Electrician. The Model 312-K is furnished complete with BF-312 1/2" heavy duty drill, RAD-2 Right Angle Drive, 3/4" Electrician's Bit, chuck remover bar, utility wrench and adjustable side handle.

Shipping Weight...21 lbs. NET PRICE...

Reversing motor is available with Model BF-312 drill at extra to kit price shown. Add suffix letter R to Model No. when ordering.

MILWAUKEE BITS AND EXTENSION SHANKS

Boring holes smoother and faster is standard procedure with MILWAUKEE drill bits. Each tool is made to exact specifications from the best material available, heat-treated, polished or ground to assure durable dependability.

- 34ATB 3/4" x 4" Twist Auger Bits with 3 Milled Flats.....
- 78ATB 7/8" x 4" Twist Auger Bits with 3 Milled Flats.....
- 1ATB 1" x 4" Twist Auger Bits with 3 Milled Flats.....
- 118ATB 1 1/8" x 4" Twist Auger Bits with 3 Milled Flats.....
- 114ATB 1 1/4" x 4" Twist Auger Bits with 3 Milled Flats.....
- 138ATB 1 3/8" x 4" Twist Auger Bits with 3 Milled Flats.....
- 112ATB 1 1/2" x 4" Twist Auger Bits with 3 Milled Flats.....
- 134SFB...Selffeed Bit for boring clean, splinter-free holes fast 1 3/4" dia.
- 218SFB...Selffeed Bit...Double end lead screw feeds bit into work...2 1/2" dia.
- 296SFB...Selffeed Bit...Without pressure...no grabbing or binding...2 3/8" dia.
- Double Feed Screw Pilots (for Selffeed Bits).... 1SFP ea. 12SFP doz.
- 1AW-2...Allen Wrench
- 34EB...3/4" Electrician's Bit.....
- 512SFE...5 1/2" Extension Shank (for Auger and Selffeed Bits)...
- 12SFE...12" Extension Shank (for Auger and Selffeed Bits)...
- 18SFE...18" Extension Shank (for Auger and Selffeed Bits)...
- 1SFE...Extension Shank Coupling

PLUMBER'S "SELFED" BIT KIT



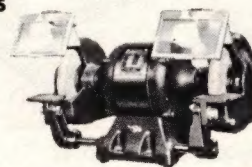
A complete assortment of most commonly used MILWAUKEE bits used for BIG HOLE drilling. Conveniently arranged for easy and ready, "on the job" bit selection. Sizes include 7/8", 1 1/8", 1 1/4" and 1 1/2" Auger Bits and the Famous MILWAUKEE "Selffeed" bits in 1 3/4", 2 1/8" and 2 3/8" dia. sizes. Also included are 5 1/2" hex. extension shank and coupling, extra twin head feed screw pilot, Allen wrench, Selffeed bit sharpener disc guide and metal carrying case.

BK-1NET PRICE...
1CC-5 Metal Carrying Case (only)
NET PRICE...

BENCH GRINDERS

HEAVY-DUTY AC BENCH GRINDERS

Precision built, smooth running. Designed for continuous production work. Ball bearing equipped. Standard equipment includes: wheel guards, adjustable tool rests, two balanced wheels—one fine and one medium grit.



Items other than standard must be ordered separately... See page 6 for prices.

HP	Model No.	Voltages AC 50/60 cycle	Phase	Speed R.P.M.	Wheel Size	Hole Dia.	Net Wgt. (lbs.)	Ship Wgt. (lbs.)	Net Price
1/4	V141	115 60 cyl. only	SINGLE	3440	6"x3/4"	1/2"	34	38	
	SB131	115	SINGLE						
1/3	SB132	230	SINGLE	3450	6"x3/4"	1/2"	58	63	
	SB133	208/220/440	THREE						
	V-121	115	SINGLE						
1/2	V-122	230	SINGLE	3450	7"x1"	5/8"	74	85	
	V-123	208/220/440	THREE						
3/4	V-341	115/230	SINGLE	3450	8"x1"	5/8"	86	98	
	V-343	208/220/440	THREE						
1	V101	115/230	SINGLE	1725	10"x1"	3/4"	160	190	
	V103	208/220/440	THREE						

Eye Shields not furnished unless specified... Indicate type desired. Illuminated Eye Shields adaptable to 1/2 HP—3/4 HP and 1 HP Bench Grinders Only.

EYE SHIELDS

ES-101 ILLUMINATED EYE SHIELD

Double socket for 2 bulbs eliminates shadow. Metal frame holds 2 pieces of 4"x6" glass, 1 piece safety glass supported by 1 piece window glass, readily replaceable when pitted. Rigid support prevents swivelling for safety. Light is thrown directly on wheel and work. Bulbs easily replaced.

Shipping weight 4 lbs. NET PRICE each



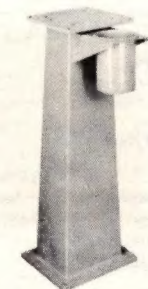
ES-201 GLASS EYE SHIELDS

Sturdy metal frame holds 3"x5" shatterproof glass. Furnished complete with screw, clamp and metal holding rod. Shipping weight 2 lbs.

NET PRICE each or per pair.

PEDESTAL STAND FOR BENCH GRINDERS

Built of heavy sheet steel, rigidly braced and welded. Furnished complete with removable water pot. Jet black finish. Four holes in base for fastening to floor. Top plate drilled to accommodate all bench grinder models listed above.

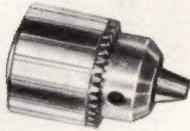


Model GP-1
Net Price

Height34 1/2"
Base10"x12"
Top10"x11"
Net Weight....61 lbs.
Shipping Weight 70 lbs.

Milwaukee

QUALITY ELECTRIC TOOLS



KEY TYPE DRILL CHUCKS

Heavy-duty 3-jaw geared type. Specify serial number of drill and spindle thread size when ordering.

Thread Size

No. 4A	... 1/4" Cap. Chuck with Key	... 3/8"-24
No. 7B38	... 1/4" Cap. Chuck with Key	... 3/8"-24
No. 7B12	... 1/4" Cap. Chuck with Key	... 1/2"-20
No. 30B38	... 5/16" Cap. Chuck with Key	... 3/8"-24
No. 30B12	... 5/16" Cap. Chuck with Key	... 1/2"-20
No. 2B	... 3/8" Cap. Chuck with Key	... 3/8"-24
No. 32B12	... 3/8" Cap. Chuck with Key	... 1/2"-20
No. 32B58	... 3/8" Cap. Chuck with Key	... 5/8"-16
No. 33B12	... 1/2" Cap. Chuck with Key	... 1/2"-20
No. 33B58	... 1/2" Cap. Chuck with Key	... 5/8"-16
No. 34B	... 1/2" Cap. Chuck with Key	... 5/8"-16
No. 5B	... 1/2" Cap. Chuck with Key	... 1/2"-20
No. 3B	... 3/4" Cap. Chuck with Key	... 5/8"-16
No. 36B	... 3/4" Cap. Chuck with Key	... 5/8"-16
No. 610-61	Impact Keyless Chuck	
No. 650-61	... 1/4" Hi-Torque Keyless Chuck	
No. 650-64	... 1/4" Hi-Torque Keyless Chuck	
No. 660-61	... 5/8" Hi-Torque Keyless Chuck	
No. 660-64	... 5/8" Hi-Torque Keyless Chuck	

DRILL CHUCK KEYS

No. 4CKS Key	— for 4A Chuck
No. 7CK Key	— for 7B Chuck
No. 30CK Key	— for 30B Chuck
No. 2CK Key	— for 2B Chuck
No. 32CK Key	— for 32B or 33B Chuck
No. 3CK Key	— for 34B or 3B Chuck
No. 4CKJ Key	— for 36B Chuck
No. 5CK Key	— for 5B Chuck

THE *Milwaukee* GUARANTEE

Every MILWAUKEE Tool is thoroughly inspected and tested before leaving the factory. It is guaranteed unconditionally against defective workmanship and materials.

Should any trouble develop, return the complete tool prepaid to the Factory or nearest Authorized MILWAUKEE Service Station. If inspection shows trouble is caused by defective workmanship or material, all repairs will be made without charge, F.O.B. Factory or Authorized Service Station.

The guarantee does not apply where:

Repairs or attempted repairs have been made by persons other than Factory or Authorized Service Station personnel.

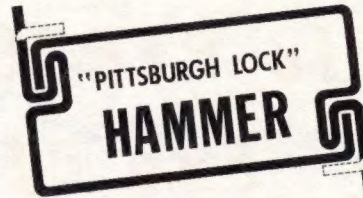
Repairs are due to normal wear.

The tool has been abused or in an accident.

Misuse is evident (Includes among other things, overloading the tool beyond its rated capacity; use of the tool after partial failure; or use with improper accessories).

No other guarantee, written or verbal, is authorized on MILWAUKEE products.

MILWAUKEE ELECTRIC TOOL CORP.



THE PERFECT TOOL
FOR CLOSING
PITTSBURGH LOCKS

HANDLES
30 TO 22 GAUGE
SHEET METAL

NEW



MODEL
PLH-1

Net Weight...10 lbs.
Shipping Weight...13 lbs.

NET PRICE...

The MILWAUKEE PLH-1 Hammer speeds up and takes the work out of the only tedious, costly, and time consuming job of fabricating duct work...closing the "seam." This new MILWAUKEE tool breezes along at a speed of 15 feet per minute on commonly used gauges. Actually can save half of a man's time in making ducts and do a better job.

Ends Hand Hammering...

Just a couple of taps at the center and ends of a standard length duct to secure the lock...then the MILWAUKEE Pittsburgh Lock Hammer does all the work.

Versatile...

Handles 30 to 22 gauge sheet metal...straight runs, inside or outside radius...Use it in the shop or on the job.

Perfect Balance...

Weight rests on the work...position of handle affords positive control and balance...guides easily along seam.

Powerful...

MILWAUKEE-BUILT 115V AC-DC motor...more than enough power for any job.

Rugged... Long Lasting...

Sturdily built for heavy-duty use...Ball and roller bearings throughout.

IMPORTANT...When ordering accessories or parts, specify model and serial number...avoiding possible error...insuring faster delivery.

Pacemakers

*In PERFORMANCE
and DEPENDABILITY!*



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